

HIGH-SPEED COLLECTING METHOD OF SAMPLE AND HIGH-SPEED DILUTING DEVICE USING IT

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Abstract of JP2000292318

PROBLEM TO BE SOLVED: To stably supply a sample at low speed without deteriorating the throughput by introducing the sample at high speed by a high-speed feed pump, partially branching it by a splitter, and slowly supplying it at a constant flow rate to an analyzing device by a low-speed feed pump. **SOLUTION:** A large quantity of a sample collected by an auto sampler 20 is fed by a high-speed feed pump 22 at high speed, and mixed with a diluting solution 14 in a combiner 26 to form a turbulent flow, which is then partially branched by a splitter 30, and the branched sample is slowly sent to a nebulizer 36 at a constant flow rate by a low-speed feed pump 32 to stabilize the output signal. The sample sent to the nebulizer 36 is atomized, and guided to a plasma torch 50 after removing the drain by a spray chamber 38. The drain discharge through the drain port 39 of the spray drain chamber 38 is slowly guided to a drain tank 44 at a constant flow rate by a drain discharge pump.

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